WEAR CONTAMINATION **FLUID CONDITION**

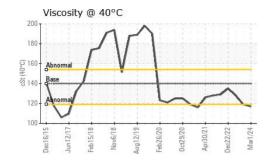
NORMAL NORMAL NORMAL

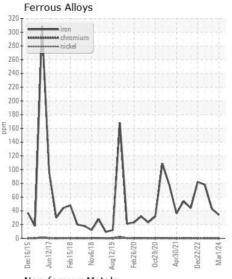


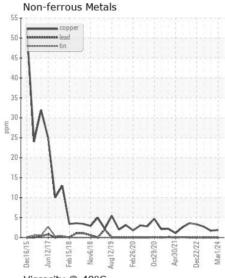
LIEBHERR LH50 1203-77107

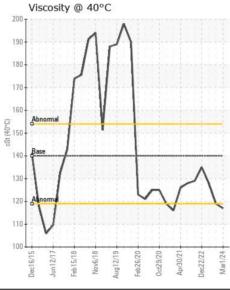
Component Rear Left Wheel Hub

CHEVRON DELO GEAR ESI OIL	80W90 (1	GAL))				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LH0258801	LH0272543	LH0254741
	Sample Date		Client Info		01 Mar 2024	29 Nov 2023	16 Jun 2023
	Machine Age	hrs	Client Info		20946	20037	18994
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>325	34	43	78
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>3	0	0	0
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	1	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		0	0	0
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		2	2	3
	Tin	ppm	ASTM D5185m	>3	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	LIGHT	MODER
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	6	4	14
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	0	0	<1
·	Water		WC Method	>0.2	NEG	NEG	NEG
	Silt	scalar	*Visual	NONE	NONE	LIGHT	NONE
	Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar 	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	0	1
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		1	6	10
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	0	0	0	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		<1	11	7
	Calcium	ppm	ASTM D5185m		55	62	61
	Phosphorus	ppm	ASTM D5185m		878	722	826
	Zinc	ppm	ASTM D5185m		19	27	33
	Sulfur	ppm	ASTM D5185m		25115	21599	25056
	Visc @ 40°C	cSt	ASTM D445	140	117	119	128











Certificate L2367

Laboratory Sample No.

: LH0258801 Lab Number : 06124411 Unique Number: 10938562 Test Package : CONST

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 20 Mar 2024 : 21 Mar 2024 **Tested**

: 23 Mar 2024 - Don Baldridge Diagnosed

AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401

Contact: CHRIS BARTNIK cbartnik@amstate.com

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (715)675-6900 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (715)675-9748